

## Abstract

An automatic vehicle washing system is described. The vehicle washing system incorporates an elongated overhead cleaning platform for cleaning the front, top and rear surfaces of a vehicle. The overhead cleaning platform is attached to a single lift mechanism at a first end and is suspended from a belt at a second end, wherein the belt is also operatively connected to the first end. Accordingly, vertical movement of the lift actuator causes both ends of the platform to uniformly rise or descend. The platform further comprises a pivotal boom with fluid nozzles attached thereto, and a reciprocating pivotal actuator. The reciprocating pivotal actuator is capable of pivotal movement to any number of angular orientations within its operative range of motion. Advantageously, the pivotal and vertical positions of the nozzles can be independently varied, permitting the location of the overhead cleaning nozzles to be optimized for various vehicle profiles.